



2681
4

915-005.17

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Re Application of :
Ari Hämäläinen :
Serial No. 10/025,119 :
Filed: December 19, 2001 : Group Art Unit: 2681
For: A METHOD FOR CHANNEL EQUALIZATION, A RECEIVER, A CHANNEL
EQUALIZER, AND A WIRELESS COMMUNICATION DEVICE

RECEIVED
OCT 17 2002
Technology Center 2600

Assistant Commissioner for Patents
U.S. Patent and Trademark Office
Washington, D.C. 20231

**REVOCATION OF PRIOR POWER OF ATTORNEY,
NEW POWER OF ATTORNEY, AND STATEMENT BY ASSIGNEE
UNDER 37 CFR § 3.73(b)**

Sir:

Enclosed herewith are the following documents: Power of Attorney or Authorization of Agent, Revocation of Power of Attorney or Authorization of Agent, and a Statement Under 37 CFR 3.73(b) with copy of Assignment attached.

Respectfully submitted,

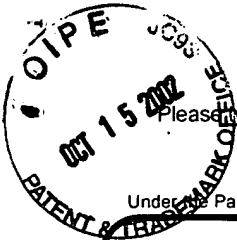
Francis J. Maguire
Attorney for the Applicant
Registration No. 31,391

/mo
October 8, 2002
WARE, FRESSOLA, VAN DER SLUYS
& ADOLPHSON LLP
Bradford Green, Building 5
755 Main Street, PO Box 224
Monroe, Connecticut 06468
(203) 261-1234

I hereby certify that this correspondence is
being deposited today with the United States
Postal Service as first class mail in an
envelope addressed to: Assistant Commissioner for
Patents, U.S. Patent and Trademark Office,
Washington, D.C. 20231.

Marilyn O'Connell

October 9, 2002
Date



Please type a plus sign (+) inside this box → ☐

PTO/SB/81 (02-01)

Approved for use through 10/31/2002. OMB 0651-0035

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

POWER OF ATTORNEY OR AUTHORIZATION OF AGENT

Application Number	10/025,119
Filing Date	December 19, 2001
First Named Inventor	Ari Hamalainen
Title	A Method for Channel etc.
Group Art Unit	2681
Examiner Name	
Attorney Docket Number	915-005.017

I hereby appoint:

☒ Practitioners at Customer Number

004955 →

OR

☐ Practitioner(s) named below:

Name	Registration Number



004955

PATENT AND TRADEMARK OFFICE

RECEIVED

OCT 17 2002

Technology Center 2600

as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.

Please change the correspondence address for the above-identified application to:

☒ The above-mentioned Customer Number.

OR

☐ Practitioners at Customer Number

Place Customer
Number Bar Code
Label here

☐ Firm or
Individual Name

Address

Address

City

State

Zip

Country

Telephone

Fax

I am the:

☐ Applicant/Inventor.

☒ Assignee of record of the entire interest. See 37 CFR 3.71.

Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96).

SIGNATURE of Applicant or Assignee of Record

Name

Mika Lehtinen, Senior Engineering Manager

Signature

Date

16.09.2002

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below*.

☐ *Total of _____ forms are submitted.

Burden Hour Statement: This form is estimated to take 3 minutes to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

U.S. PATENT & TRADEMARK OFFICE
OCT 15 2002

Please type a plus sign (+) inside this box → ☐

PTO/SB/82 (10-00)

Approved for use through 10/31/2002. OMB 0651-0035

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

REVOCATION OF POWER OF ATTORNEY OR AUTHORIZATION OF AGENT

Application Number	10/025,119
Filing Date	December 19, 2001
First Named Inventor	Ari Hamalainen
Group Art Unit	2681
Examiner Name	
Attorney Docket Number	915-005.017

I hereby revoke all previous powers of attorney or authorizations of agent given in the above-identified application:

☒ A Power of Attorney or Authorization of Agent is submitted herewith.

OR

☐ Please change the correspondence address for the above-identified application to:

☐ Customer Number

OR

Place Customer Number Bar Code Label here

RECEIVED
OCT 17 2002
Technology Center 2600


<input type="checkbox"/> Firm or Individual Name					
Address					
Address					
City					
Country		State		ZIP	
Telephone		Fax			

I am the:

☐ Applicant/Inventor.

☒ Assignee of record of the entire interest. See 37 CFR 3.71.
Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96)

SIGNATURE of Applicant or Assignee of Record

Name	Mika Lehtinen, Senior Engineering Manager
Signature	
Date	16.09.2002

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below*.

☐ *Total of _____ forms are submitted.

Burden Hour Statement: This form is estimated to take 3 minutes to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

STATEMENT UNDER 37 CFR 3.73(b)Applicant/Patent Owner: Ari HamalainenApplication No./Patent No.: 10/025,119Filed/Issue Date: December 19, 2001Entitled: A Method for Channel Equalization, a Receiver, a Channel Equalizer, and a Wireless Communication DeviceNokia Corporation

(Name of Assignee)

, a corporation

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest; or
2. ☐ an assignee of less than the entire right, title and interest.
The extent (by, percentage) of its ownership interest is _____ %

in the patent application/patent identified above by virtue of either:

RECEIVED**OCT 17 2002****Technology Center 2600**

- A. ☒ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel 012401, Frame 0537, or for which a copy thereof is attached.

OR

- B. ☐ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

2. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

3. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet.

- ☐ Copies of assignments or other documents in the chain of title are attached.

[NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

16.09.2002

Date

Mika Lehtinen

Typed or printed name

Signature

Senior Engineering Manager

Title



UNITED STATES
PATENT AND
TRADEMARK OFFICE



3515/OK109

FEBRUARY 20, 2002

PTAS

Under Secretary of Commerce For Intellectual Property and
Director of the United States Patent and Trademark Office
Washington, DC 20231
www.uspto.gov

DARBY & DARBY, P.C.
ROBERT C. SULLIVAN, JR.
805 THIRD AVENUE, 27TH FLOOR
NEW YORK, NY 10022-7513



101929405A

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF
THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS
AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER
REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE
INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA
PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD
FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY
CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723.
PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE,
ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY,
SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 12/19/2001

REEL/FRAME: 012401/0537
NUMBER OF PAGES: 2

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:
HAMALAINEN, ARI

DOC DATE: 10/28/2001

RECEIVED

ASSIGNEE:
NOKIA CORPORATION
KEILALAHDENTIE 4
ESPOO, FINLAND FIN-02150

OCT 17 2002

Technology Center 2600

SERIAL NUMBER: 10025119
PATENT NUMBER:

FILING DATE: 12/19/2001
ISSUE DATE:

LAZENA MARTIN, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

01-02-2002



To the Honorable Commissioner of Pat

101929405

... original documents or copy thereof.

1. Name of conveying party(ies):

Ari HAMALAINEN

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other

Execution Date: October 28, 2001

2. Name and address of receiving party(ies):

Name: **NOKIA CORPORATION**

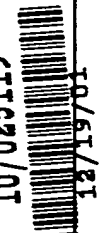
Internal Address:

Street Address: **Keilalahdentie 4**

City: **Espoo** State: **FINLAND** Zip: **FIN-02150**

Additional name(s) & address(es) attached? ☐ Yes ☒ No

386530 U.S. PTO
10/025119



4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: October 28, 2001

EXPRESS MAIL CERTIFICATE

12/19/01 62767720 14 005

I hereby certify that, on the date indicated above, this paper or fee was deposited with the U.S. Postal Service & that it was addressed for delivery to the Assistant Commissioner for Patents, Washington, DC 20231 by "Express Mail Post Office to Addressee" service.

A. Patent Application No.(s)

B. Patent No.

Name (Print)

Signature

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Darby & Darby P.C.

Internal Address: Robert C. Sullivan, Jr.

Street Address: 805 Third Avenue, 27th Floor

City: New York State: New York Zip: 10022-7513

6. Total number of applications and patents involved:

1

7. Total fee (37 CFR 3.41):.....\$ 40.00

☒ Enclosed

☐ Authorized to be charged to deposit account

RECEIVED

OCT 17 2002

8. Deposit account number **Technology Center 2600**

04-0100

(Attach duplicate copy of this page if paying by deposit account)

12/27/2001 MWOLDER1 00000048 10025119

03 FC:581

40.00 OP

DO NOT USE THIS SPACE

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Marie L. Collazo (44,085)
Name of Person Signing

Signature

December 19, 2001
Date

Total number of pages including cover sheet, attachments, and document:

2

ASSIGNMENT

I, **Ari HÄMÄLÄINEN**, a citizen of **Finland**,
residing at **Estetie 15 B, FIN-01280 VANTAA, Finland**

(hereinafter called "ASSIGNOR") in consideration of the sum of One Dollar (\$1.00) or the equivalent thereof, and other good and valuable consideration, receipt of which is hereby acknowledged, paid to me by

Nokia Corporation

a corporation organized under the laws of **Finland**, located at **Keilalahdentie 4, FIN-02150 ESPOO, Finland**, (hereinafter called the "ASSIGNEE"), do hereby sell and assign to said ASSIGNEE, its successors and assigns, all my right, title and interest, **throughout the world, including priority rights**, in and to my invention entitled:

**A method for channel equalization, a receiver, a channel equalizer,
and a wireless communication device**

invented by me, for United States Letters Patent therefor, and all divisions, reissues, continuations and extensions thereof, said interest being **my entire ownership interest** in said Letters Patent when granted, to be held and enjoyed by said ASSIGNEE, its successors, assigns or other legal representatives, to the full end of the term for which said Letters patent may be granted, as fully and entirely as the same would have been held and enjoyed by me if this assignment and sale had not been made;

And I hereby agree to sign and execute any further documents or instruments which may be necessary, lawful, and proper in the prosecution of said above-named application or in the preparation and prosecution of any continuing, continuation-in-part, substitute, divisional, renewal or reissue applications, or in any amendment, extension, or interference proceedings, or otherwise to secure the title thereto in said ASSIGNEE;

And I hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to said ASSIGNEE.

I declare under penalty of perjury under the laws of the United States of America that I have signed this document as my own free act and that all of the foregoing is true and correct.


Ari Hämmäläinen

DATED: 28 October 2001